

Sierra Army Depot



ISO 14001

Environmental Management System (EMS) Awareness Training



protecting our environment is everyone's responsibility ~





Executive Order 13423



signed 01/24/2007, from the President of the United States

- Sec. 3. *Duties of Heads of Agencies*. In implementing the policy set forth in this order, the head of each agency shall:
 - (b) implement within the agency environmental management systems (EMS) at all appropriate organizational levels to ensure
 - (i) use of EMS as the **primary** *management* **approach for addressing environmental aspects** of internal agency operations and activities...,
 - (ii) establishment of agency objectives and targets to ensure implementation of this order, and
 - (iii) collection, analysis, and reporting of information to measure performance in the implementation of this order.



ISO 14001 Overview



ISO 14001 is an internationally accepted standard that defines the requirements for establishing, implementing and operating an Environmental Management System.

An Environmental Management System (EMS) is a framework that allows an organization to consistently control its significant impacts on the environment, reduce the risk of pollution incidents, ensure compliance with relevant environmental legislation and continually improve its processes and operations.



14001 Certification Benefits



- Reduces resource use like energy, water, etc.
- Reduces waste disposal costs and problems
- Reduces pollution
- Continual Improvement
- Getting recognition as a "green" company on a domestic and international level – gives competitive advantage
- Drives performance improvement and improves efficiency
- Ensuring compliance to legal requirements
- Reduces liability
- Potentially saves SIAD from paying heavy legal penalties



Sierra Army Depot Environmental Policy 200-2 (paraphrased)



SIAD is committed to leadership and stewardship in protection of the environment and workplace safety, based on continual improvement, sustainability, hazard identification and control (aspect and impact identification), and pollution prevention.

SIAD complies with federal, state, and local regulations in addition to other requirements. SIAD reviews environmental objectives and targets annually or when new types of work are received.

SIAD conducts operations in a manner which protects the community and minimizes or prevents adverse impact to environmental media through environmental controls. The installation protects its workers through hazard identification, risk assessment and implementation of risk controls.



ISO 14001 Requirements



PLAN



4.2 Environmental Policy

4.3.1 Environmental Aspects

4.3.2 Legal and Other Requirements

4.3.3 Objectives, Targets and Programs



ACT

4.6 Management Review

4.4.1 Resources, Roles, Responsibility and Authority

4.4.2 Competence, Training and Awareness

4.4.3 Communication

4.4.4 Documentation

4.4.5 Control of Documents

4.4.6 Operational Control

4.4.7 Emergency Preparedness and Response

CHECK



- 4.5.1 Monitoring and Measurement
- 4.5.2 Evaluation of Compliance
- 4.5.3 Nonconformity, Corrective Action and Preventive Action
- 4.5.4 Control of Records
- 4.5.5 Internal Audit

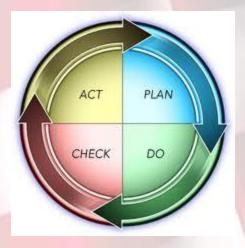




EMS OVERVIEW



- > "Plan" what you will Do
- "Do" according to your Plan
- "Check" to see if what you did worked



- "Act" to change or improve the part of your Plan or Do that did not give you the results you intended
- Key Concept of ISO 14001: "Say what you do, Do what you say, and document what you did!" If you do not document it, it did not happen.



Environmental Aspects and Impacts Definitions



- Environment: Surroundings in which an organization operates and has influence on, including air, water, land, natural resources, flora, fauna, humans, and their relation.
- ☐ Environmental Aspect: (WHAT) element of an organization's activities, products or services that can interact with the environment.
- Environmental Impact: (HOW) any element can change the environment, whether adverse or beneficial, resulting from an organization's activities, products or services.



Environmental Aspects and Impacts Examples



Everybody at SIAD has a role and responsibility managing the EMS program. Ensure you perform tasks in an environmentally safe manner!

- Environmental Aspects: Recyclables (paper, toner cartridges, lead acid batteries, etc.); hazardous materials (oil, fuels, paints, etc.); hazardous waste; utilities (turning off lights, electricity conservation, water conservation, etc.).
- Environmental Impacts: Solid waste going to the landfill (soil), hazardous material/waste spills (soil, groundwater), emissions (air).





Environmental Aspect and Impact Examples



- Hazardous materials in storage, flammable storage cabinets, etc.
- Calibration of measuring, weighing and monitoring equipment. Equipment not operating properly may have an adverse impact.
- Hazardous waste is an environmental aspect that would be an environmental impact if spilled or released and would be a nonconformance if not labeled, improperly labeled or improperly stored.
- Paint / Blast booth filter changes are environmental aspects because they minimize air emissions.



Significant Environmental Aspect Areas



Drinking Water
Hazardous Waste Management
Equipment Painting

Big 9 - Potential Significant Environmental Aspect Areas

Paint/Blast Booths (Air Emissions) Hazardous Material / Igloo Area

Facilities and Equip. Maintenance Recycling

Fire Department Tactical Vehicle Storage area

Base Support Shops DOIM (Information)

Hazardous Waste 90-Day Area Storage Facility





Objectives, Targets and Programs Definitions



Systematic process to achieve continual improvement.

- ☐ Environmental Objective: An environmental goal to be achieved, consistent with the environmental policy.
- Environmental Target: Detailed measurable performance requirement to be met in order to achieve the Environmental Objectives.



FY14 Objectives and Targets for Significant Aspects



Drinking Water

Objective:

Increase consumer confidence in SIAD's drinking water quality.

Target:

Increase consumer confidence by 10% by end of FY15 based on initial baseline survey conducted in FY13.

Hazardous Waste

Objective:

Reduce hazardous waste generated by SIAD activities through diversion to recycling programs.

Target:

Reduce overall hazardous waste generation by 15% during FY14 using hazardous material recycling programs.

03/12/2014



FY14 Objectives and Targets for Significant Aspects



Equipment Painting

Objective:

Reduce air emissions - volatile organic compounds (VOCs) and hazardous air pollutants (HAPs) generation produced from painting activities.

Target:

Reduce VOCs by 2.0% and by 30 Sep 2014.

03/12/2014



4.4.1 Resources, Roles, Responsibility and Authority



SIAD Top Management has appointed the Garrison Manager as the Environmental Management Representative (EMR) with the responsibility and authority to ensure:

- Environmental management system requirements are established, implemented and maintained in accordance with ISO 14001 international standards.
- Reporting to Top Management on the performance of the environmental management system for review including recommendations for improvement.



4.4.5 Control of Documents



- Must establish, implement and maintain a procedure to
 - Review and update documents (SOPs, Desk Guides, etc.) as necessary and re-approve
 - Current versions are available at points of use
 - Documents remain legible
 - Documents of external origin are identified and controlled
 - Prevent unintended use of obsolete documents, and apply suitable identification if retained



4.4.6 Operational Control



Plan and carry out processes to prevent and minimize impacts to the environment

- Each organization must establish, implement and maintain documented procedures (SOPs, Desk Guides, etc.) to control situations where the lack of documented procedures could lead to deviations and nonconformities
- Procedures must include steps to identify and control environmental impacts of the organizations activities



 Procedures and requirements must be communicated to suppliers and contractors



4.4.7 Emergency Preparedness and Response



Procedures for identifying and managing emergencies that can have environmental impacts

- Establish, implement and maintain procedures to identify potential emergency situations and accidents
- Respond to actual emergency situations and accidents, and prevent or control adverse environmental impacts
- Review and revise procedures, especially after an accident or emergency occurs
- Periodically test procedures
- Document and critique test



4.4.7 Emergency Preparedness and Response – Post the current Spill Procedures card at work areas and at all hazardous waste accumulation areas





SPILL PROCEDURES



In the event of a spill of any amount of chemicals, petroleum products, hazardous material, or residues from process operations, paint operations, etc., the following actions shall be taken by the individual causing, witnessing, or discovering the spill:

- 1. Evacuate personnel from the immediate area as necessary.
- 2. Notify Security by calling: 911
- 3. Security will then notify the following in the order listed:

Fire Department	x4911	-or-	x4309		
Safety	x4234				
Environmental	x4381	-or-	x4235	-or-	x4622

- 4. Non-emergency spills, call: x4381 -or- x4235 -or- x4622
- 5. If it is safe to do so and within your level of training, stop the spill from spreading by:
 - closing any open valves or levers, or;
 - berming the spill with absorbent material, spill socks, spill dikes, or soil.
- Contact Environmental for any information or assistance completing your mission in an environmentally safe manner.

530-827-4381	x4381	Environmental Protection Specialist
530-827-4235	x4235	Hazardous Waste Program Manager
530-827-4622	x4622	Chief, Environmental

Rev. 06 October 2010



Nonconformity, Corrective Action and Preventive Action Definitions

Systematic approach to identifying problems

- Nonconformity non-fulfillment of a requirement
- Corrective action action to eliminate the cause of a detected nonconformity
- Preventive action action to prevent the cause of a potential nonconformity

Your Role! Self identify problems, document them and correct them in a manner so they will not occur again

03/12/2014



Examples of Environmental Concerns



- What do you do and who do you call in case of a spill of Hazardous Material or Hazardous Waste?
- □ I have an expired can of Hazardous Material, what should I do with it? You need to know where your waste accumulation area is located!
- What should I do with Hazardous Wastes?
- □ Do I have a SOP, LOI or JHA for my process or operation? If not, why not? Does the procedure include steps to control environmental impacts?



Environmental Management Team



- ☐ Environmental Management Representative (EMR)/Garrison Manager
- EMS Team Leader/Environmental Chief
- EMS/ISO 14001 Coordinator
- Environmental Protection Specialists
- □ Department Level Supervisors



Remember...



PROTECTING OUR ENVIRONMENT IS EVERYONE'S RESPONSIBILITY

Questions/Comments?

